

K072630



**KWANG YANG MOTOR CO., LTD.**

No. 35, Wan Hsing Street, San Min Dist., 803, Kaohsiung, Taiwan

TEL: +886-7-3822526 FAX: +886-7-3825834

## 510(k) Summary

### Device

OCT 3<sup>rd</sup> 2007

Trade name: **ForU EQ30 scooter**

Common name: **Electrical scooter**

Classification name: **Motorized three-wheeled vehicle**

Medical specialty (Panel): **Physical Medicine Device**

Regulation number: **890.3800**

Product Code: **89INI**

Classification: **Class II**

### Predicate devices

**AVANTICARE SA4022(K051538)/ LERADO CHINA LIMITED**

### Intend use of device

**ForU EQ30 scooter** is intended for an indoor/outdoor scooter that provides transportation for disabled or elderly persons limited to a seated position.

### Device description:

The **ForU EQ30 scooter** is an indoor/outdoor transportation vehicles which is battery operated. The movement of the scooter is controlled by a tiller handle and a **thumb operated potentiometer throttle control lever** to engage and disengage the scooter motion in both the forward and reverse directions.

### Substantial equivalence:

The **ForU EQ30 scooter** is substantially equivalent to the **AVANTICARE SA4022 (K051538)** manufactured by **LERADO CHINA LIMITED**.

There are minor differences in performance specifications of the scooters, these differences do not alter the intended function and use of the device, nor do they raise any new questions pertaining to safety or effectiveness. Therefore, **KWANG YANG MOTOR CO., LTD.** believes that the **ForU EQ30 scooter** is substantially equivalent to legally marketed devices currently in commercial distribution.



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The substantial equivalence comparison of the ForU EQ30 and SA4022

	SA4022(K051538)	ForU EQ30
Intended use	Three scooters are motor driven, indoor and outdoor transportation vehicles with the intended use to provide mobility to disabled or elderly persons limited to a seated position.	
Maximum loading	135 kg ( 300 lbs)	150 kg (330 lbs)
Overall height	980 mm ( 38.5")	1250 mm (49.2")
Overall length	1160 mm ( 45.7")	1240 mm (48.8")
Overall width	540 mm ( 21.3")	560 mm (22")
Seat overall height	520 mm ( 20.5")	756 mm (29.8")
Seat overall width	457 mm ( 18")	455 mm (17.9")
Seat overall depth	406 mm ( 16")	400 mm (15.7")
Seat overall weight	15 kg ( 33 lbs)	15.2 kg(33.4 lbs)
Motor output	350W x DC24V x 5100 RPM, 1PC	350W x DC24V x 1PC
Controller	Dynamic DS72K01	KYSA 70
Differential mechanism	Differential rate: 19.7 : 1	
Rear wheel drive	Sealed transaxle direct drive	
Operation mode	Thumb operated potentiometer throttle control lever	
Battery	Lead-Acid 12V x 36AH x 2PCs	Lead-Acid 12V x 31AH x 2PCs
Battery level indicator	Yes	



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(Continuous)

The substantial equivalence comparison of the ForU EQ30 and SA4022

	SA4022(K051538)	ForU EQ30
Charger	HP 24V 3/5AMP (Automatic Type) off-board	HP 24V, 5 AMP (Automatic Type) on-board
Front wheel	10" x 2" foam filled tire x 2 PCs Rim: aluminum alloy	10" x 5" pneumatic tire x 2 PCs
Bumpers	Front/Rear: It's constructed by engineering plastics	Front: It's constructed by steel tube Rear: It's constructed by engineering plastics
Armrest	Yes, Foldable	
Tiller foldable	Yes	
Backrest recline Recline angle indicator	Yes	
	No	
Headrest	No	Yes
Height adjustable	No	Yes
Rear wheel	10" x 2" foam filled tire x 2 PCs Rim: aluminum alloy	10" x 5" pneumatic tire x 2 PCs
Break system	Intelligent regenerative electromagnetic brake	Intelligent regenerative electromagnetic brake and hand brake
Braking distance	1.88 m (74")	Forward: 1.24 m (48.8") at max speed
Net weight with battery	81 kg (178 lbs)	84.4 kg(185.7 lbs)
Slope grade ability	12 degree	10 degree



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(Continuous) The substantial equivalence comparison of the ForU EQ30 and SA4022

	SA4022(K051538)	ForU EQ30
Per-charge distance	35 km (22 miles)	Up to 37 km (23.1 miles)
Maximum speed	8.5 km/h (5.3 mph)	Up to 8 km/hr (4.7 mph), variable
Speed mode	Single mode, Variable	
Turning radius	1450 mm ( 57")	1565 mm (61.6")
Maximum curb height	90 mm (3.5")	80 mm (3.14")
Suspension	Front: No, Rear: Yes	
Head/Tail lights Signal light	Head/tail lights and signal lights of the EQ30 and SA4022 scooters have the same functions, but only the styles are different.	
Warning light	Yes	
Horn	Yes	
Anti-tip wheels	Yes	



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

KWANG YANG MOTOR CO., LTD.

% Ms. Juannata Chang  
No. 35, Wan Hsing Street  
San Min Dist., 803  
Kaohsiung, Taiwan

OCT 3 2007

Re: K072630  
Trade/Device Name: ForU EQ30 Scooter  
Regulation Number: 21 CFR 890.3800  
Regulation Name: Motorized three-wheeled vehicle  
Regulatory Class: Class II  
Product Code: INI  
Dated: September 10, 2007  
Received: September 18, 2007

Dear Ms. Chang:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Ms. Juannata Chang

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at toll-free number (800) 638-2041 or (240) 276-3150 or the Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Mark N. Melkerson", with a stylized flourish at the end.

Mark N. Melkerson  
Director  
Division of General, Restorative  
and Neurological Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

3. Device descriptive information

3.1 Statement of indication for use

## Statement of Indications for Use

510(k) Number (if known): \_\_\_\_\_

Device Name: **ForU EQ30**

Indications for Use:

The **ForU EQ30** scooter is motor driven, indoor and outdoor transportation vehicles with the intended use to provide mobility to disabled or elderly persons limited to a seated position.

Prescription Use \_\_\_\_\_

(Part 21 CFR 801 Subpart D)

AND/OR

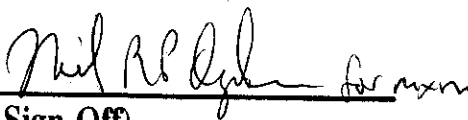
Over-The-Counter Use   X  

(Part 21 CFR 807 Subpart C)

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PAGE OF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

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(Division Sign-Off)

Division of General, Restorative,  
and Neurological Devices

510(k) Number   K072630  

(Posted November 13, 2003)